### Amendments to the Specification

Page 1, before the title, please insert the following heading:

#### TITLE OF THE INVENTION

Page 1, after the title, please insert the following headings:

#### BACKGROUND OF THE INVENTION

## Field of the Invention

Page 1, at line 7, please insert the following heading:

# Description of the Background

Page 2, at line 7, please insert the following heading:

#### SUMMARY OF THE INVENTION

Page 2, at line 25, please insert the following heading:

### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Please amend the paragraph of page 8, lines 32-39 as follows:

-- Synthesis: A 1 1 four-neck liter four-necked flask equipped with a precision glass stirrer, thermometer, dropping funnel, and water separator was initially charged with 175 g of the pretreated cyclohexanol, 3.4 g of p-toluenesulfonic acid and 140 g of cyclohexane. The water separator was filled with cyclohexane. After 2 hours at 95° C, 165 g of methacrylic acid and 35 mg of phenothiazine were added dropwise within approx. 2 minutes. The reaction temperature was increased to 120°C by removing cyclohexane. Within 25 hours, a total of 75 g of aqueous phase was separated at a bottom temperature of 120° C. --

Please amend the paragraph of page 9, lines 12-18 as follows:

-- Synthesis: A 1 1 four neck liter four-necked flask equipped with a precision glass stirrer, thermometer, dropping funnel, and water separator was initially charged with 165 g of methacrylic acid, 175 g of the pretreated cyclohexanol, 3.4 g of p-toluenesulfonic acid, 630 mg of phenothiazine and 140 g of cyclohexane. The water separator was filled with cyclohexane. The reaction temperature was increased to 120°C by removing cyclohexane. Within 25 hours, a total of 79 g of aqueous phase was separated at a bottom temperature of 120°C. --

Please amend the paragraph of page 9, lines 31-36 as follows:

-- Synthesis: A 1 l-four-neck liter four-necked flask equipped with a precision glass stirrer, thermometer, dropping funnel, and water separator was initially charged with 165 g of methacrylic acid, 175 g of the pretreated cyclohexanol, 35 mg of phenothiazine, 3.4 g of ptoluenesulfonic acid and 140 g of cyclohexane. The water separator was filled with cyclohexane. The intention was to increase the reaction temperature to 120°C by removing cyclohexane. --

Please amend the paragraph of page 10, lines 9-18 as follows:

-- Synthesis: A 1 1 four-neck liter four-necked flask equipped with a precision glass stirrer, thermometer, dropping funnel, and water separator was initially charged with 175 g of the pretreated cyclohexanol, 3.4 g of p-toluenesulfonic acid and 140 g of cyclohexane and heated to 95° C. The reactor charge was heated up to within 30 minutes. On attainment of the reaction temperature of 95° C, the metered addition of the methacrylic acid was commenced immediately. The water separator was filled with cyclohexane. Within 2 hours, 165 g of methacrylic acid and 35 mg of phenothiazine were added dropwise. The reaction temperature was increased to 120°C by removing cyclohexane. Within 25 hours, a total of 77 g of aqueous phase was removed at a bottom temperature of 120° C. --

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Please amend the paragraph of page 10, lines 31-37 as follows:

-- A 2 l-four-neck liter four-necked flask equipped with a precision glass stirrer, thermometer, dropping funnel and water separator was initially charged with 326 g of n-butanol, 12.8 g of 96 % sulfuric acid and 240 mg of hydrogen peroxide (30 % by weight in water). The water separator was filled with cyclohexane. After 2 hours at 95° C, 288 g of acrylic acid and 72 mg of phenothiazine were added dropwise within approx. 2 minutes. Within 3.5 hours, a total of 66 g of aqueous phase was separated at a bottom temperature of from 95 to 105° C and a pressure of 500 mbar. --

Please amend the paragraph of page 11, lines 9-14 as follows:

-- A 2 l four-neck liter four-necked flask equipped with a precision glass stirrer, thermometer, dropping funnel and water separator was initially charged with 288 g of acrylic acid, 326 g of n-butanol, 288 mg of phenothiazine, 12.8 g of 96 % sulfuric acid and 240 mg of hydrogen peroxide (30 % by weight in water). The water separator was filled with n-butanol. Within 4 hours, a total of 69 g of aqueous phase was separated at a bottom temperature of from 90 to 105° C and a pressure of 500 mbar. --